

ITEM NO. 7 CITY OF LAKEPORT MUNICIPAL SEWER DISTRICT WASTEWATER TREATMENT FACILITY, CONSIDERATION OF A CEASE AND DESIST ORDER AND CONNECTION RESTRICTION, LAKE COUNTY

Page 1-16 Revise title and all headers to read:
“CEASE AND DESIST ORDER ~~AND CONNECTION RESTRICTION~~ “

Page 2 Revise Finding No. 12 as follows:
“The Discharger’s 18 September 2006 water balance, prepared by a California Registered Engineer, shows that there is adequate storage capacity for an average dry weather flow (ADWF) of 0.57 mgd. However, at the currently permitted **ADWF** flow rate of 1.05 mgd, there is inadequate storage capacity. The water balance is based on 100-year annual precipitation data, 600 acre-feet of storage with two feet of freeboard, a beginning storage volume in October of each year of 100 acre-feet or less, and applying wastewater to 260 acres of disposal area **(however, the actual sprayfield area is 242 acres)**.

~~Staff’s review of monthly monitoring reports shows that the monthly ADWF from May through September 2006 ranges from 0.38 to 0.64 mgd. Therefore, the water balance demonstrates that the Discharger does not have enough storage capacity for its permitted flow; nor does it have enough storage capacity for its current wastewater flow. Both of these conditions are a violation of Discharge Specification No. B.11.~~

Staff and the Discharger discussed how to measure the ADWF, and agreed that it is to be an average of the inflows for the months of August, September, and October each year. The ADWF for the years 2003 through 2006 ranges from 0.37 to 0.41 mgd.

Staff’s California Registered Engineer worked with the Discharger to revise the water balance to reflect actual conditions and better model inflow/infiltration rates. The revised water balance shows that there is adequate storage capacity for 0.35 mgd ADWF. Therefore, the Discharger does not have sufficient capacity for its current flows, in violation of the WDRs.

However, the Discharger has the ability to rapidly make two changes to increase its capacity: lower the volume remaining in the storage reservoir to 50 acre feet each October, and increase the sprayfield by 90 acres. When the water balance was changed to reflect these improvements, it shows that the Discharger has adequate storage capacity for an ADWF of 0.42 mgd.”

Page 3 Insert new finding before No. 13 and renumber accordingly:
“The Discharger’s 2006 General Plan and related documents shows that it has approved projects to build 334 homes, and that it has pending applications for an additional 203 homes. If all of these projects are built,

then the ADWF will increase from 0.4 mgd to 0.54 mgd, which is significantly over capacity.”

- Page 3 Revise Finding new No. 14 as follows:
“~~To ensure that influent flows are accurately measured, it is appropriate to require a flow meter calibration report.~~ ***Influent flows are currently measured using pump run times from the Linda Lane Pump Station. It is unknown when this was last calibrated and therefore to ensure that influent flows are accurately measured, it is appropriate to require that a proper flow meter be installed and all flow meters be calibrated.”***
- Page 8-9 Delete Finding Nos. 29 through 31 and renumber accordingly.
- Page 10 Delete Finding Nos. 39 and 40 and renumber accordingly.
- Page 11 Revise Item No. 1 of the “It is Hereby Ordered” section as follows:
“~~With the exception of Discharge Specification No. B.1 of WDRs Order No. 98-207 (pertaining to the dry weather inflow to the wastewater treatment plant), the Discharger shall immediately comply with all aspects of WDRs Order No. 98-207.”~~ ***The Discharger shall immediately comply with all aspects of WDRs Order No. 98-207, and in addition shall comply with all items described in this Order. Where the CDO imposes more stringent conditions than those provided in the WDRs, the Discharger shall comply with the more stringent conditions required by this Order.***
- Page 11 Revise Item No. 2 of the “It is Hereby Ordered” section as follows:
“Effective immediately, the average monthly dry weather inflow to the wastewater treatment plant shall not exceed ~~0.64~~ ***0.42*** mgd (***calculated by averaging the flows from August through October each year*** ~~i.e., the flow generated in May 2006~~), and the annual inflow (measured from October through September) shall not exceed ~~885 942~~ acre-feet (approximately ~~298~~ ***288*** million gallons).”
- Page 11 Insert new Item No. 3 to the “It is Hereby Ordered” section and renumber accordingly:
“Effective 1 November 2007, the facility shall have sufficient treatment, storage, and disposal capacity to accommodate allowable wastewater flow, design seasonal precipitation, and ancillary inflow and infiltration. Design seasonal precipitation shall be based on total annual precipitation using a return period of 100 years, distributed monthly in accordance with historical rainfall patterns. The freeboard in the treatment ponds and storage reservoir shall never be less than two feet as measured from the water surface to the lowest point of overflow. By 15 October of each year, the storage reservoir capacity shall at least equal the volume necessary to comply with the above.”

- Page 11 Insert new Item No. 4 to the "It is Hereby Ordered" section and renumber accordingly:
"Effective 1 April 2007, irrigation with wastewater shall not be performed within 24 hours before a predicted precipitation event, during precipitation, or within 24 hours after any precipitation event, nor shall it be performed when ground is saturated or when winds exceed 30 mph."
- Page 11 Revise Item No. 4 of the "It is Hereby Ordered" section as follows:
"...The report shall also ...for on-going meter calibration, and (c) shall provide two months of data showing influent flows from the Linda Lane pump station calculated by both pump run times and by the magnetic flow meter, and shall discuss the differences and the impact on the water balance."
- Page 11 Revise Item No. 5 of the "It is Hereby Ordered" section as follows:
"By 1 October of each year, the volume of wastewater in the effluent storage reservoir shall not exceed 400-50 acre-feet ."
- Page 12 Delete Item No. 6 of the "It is Hereby Ordered" section and renumber accordingly.
- Page 12-13 Revise Item No. 9 of the "It is Hereby Ordered" section as follows:
"By 1 November 2007, the Discharger shall finish all short-term storage and disposal capacity improvements necessary to 1) divert all surface water around the recapture basin, and 2) complete submit a report demonstrating that it has completed the 90-acre expansion of the spray irrigation disposal fields. By this date, a report of project completion shall be submitted. The Short Term Storage and Disposal Capacity Improvements Report shall include the following The report shall clearly show that tailwater generated on these fields will be captured and returned to the storage reservoir."
Delete the remainder of Item No. 9.
- Page 14 Revise Item No. 13 of the "It is Hereby Ordered" section as follows:
". . . The water balance shall be based on all flows entering the wastewater system, 100-year annual precipitation returns, and compliance with the two-foot freeboard requirement in treatment ponds and storage reservoir, and shall model I/I flows using the method described in the July 2004 State Water Board training manual titled "Training Handbook for Disposal of Non-Designated Waste to Land Systems." All assumptions and calculations used in preparing the water balance must be clearly identified. The water balance shall include consideration of at least the following: items listed in No. 9b (above).
- a. Wastewater flows from all sources such as subsurface inflows, storm water run-on, and any inflow and infiltration from the collection system;***
 - b. Local precipitation data (indicate what weather station was used to obtain the data, and indicate what the total annual precipitation is for***

average and 100 year annual storm events, and show how that value was distributed throughout the year, by months, based on historical rainfall patterns);

- c. Infiltration and inflow;***
- d. Local evaporation data;***
- e. Measured evaporation data from any enhanced evaporation system;***
- f. Projected percolation rates for the effluent storage reservoir; and***
- g. Irrigation disposal rates that comply with the requirements of the WDRs.***

The Sewer System Master Plan shall include a proposed timeline for all improvements.”

Page 15 Revise Item No. 16 of the “It is Hereby Ordered” section as follows:
“. . . These reports shall describe all work completed during the calendar quarter to comply with this Cease and Desist Order; ~~and~~ any new, modified, or renovated component of the collection, treatment, storage, ***and disposal system and number of new sewer connections authorized during that quarter.*** The reports shall specifically address work completed to identify and reduce I/I. . .”

Page 15-16 Delete Item Nos. 17 through 21 of the “It is Hereby Ordered” section.